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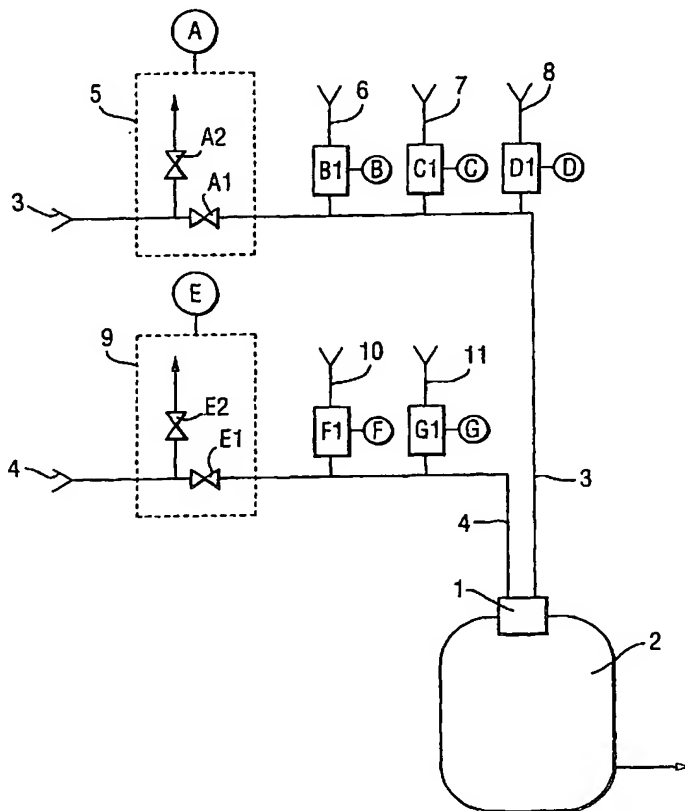
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(54) Title: METHOD TO CONTROL A PROCESS



(57) Abstract: Method to control a process, wherein actions, which can alter the status of the process, are controlled by basic control units, wherein at least one basic control unit comprises the following functions: means to receive and priority handle a request for a basic control action from a group control unit, means to receive and transform information from the process into a permit required to start the action, means to receive lockouts from basic control unit(s) to prevent the start of the action and force the default status means to process an internal lockout, and means to execute the required action according to a logic or sequence according to which the basic control unit operates, and wherein a group control unit comprises the same structure as the basic control units.

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## INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 450 346 A (KRUMMEN HELMUT ET AL) 12 September 1995 (1995-09-12) column 4, line 4 - line 68; figures 1,2 -----	1

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5450346	A	12-09-1995	DE 4139179 A1	03-06-1993
			DE 59205130 D1	29-02-1996
			WO 9311475 A1	10-06-1993
			EP 0614548 A1	14-09-1994
			JP 2747851 B2	06-05-1998
			JP 6510877 T	01-12-1994

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